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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,327	09/27/2006	Ryoji Noyori	129542	3317
25944 OLIFF & BERI	7590 08/13/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	GALE, KELLETTE		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1621	
			MAIL DATE	DELIVERY MODE
			08/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/594,327	NOYORI ET AL.			
Office Action Summary	Examiner	Art Unit			
	KELLETTE GALE	1621			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
	/ IC CET TO EVOIDE AMONTH!	C) OD TUUDTY (20) DAVC			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 16 M	av 2008				
	action is non-final.				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>11-31</u> is/are pending in the application	1 .				
4a) Of the above claim(s) <u>12,14-16,18,19,21,22 and 24-28</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>11,13,17,20,23,26 and 29</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
··· _	r				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	• •				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
	priority under 35 LLS C. § 119(a)	-(d) or (f)			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1.☐ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attacharanta					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date <u>9/27/2006</u> . 6)					

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DETAILED ACTION

Election/Restrictions

In a correspondence dated May 16, 2008, applicants have elected claims 11, 13, 17, 20, 23, 26, and 29 without traverse. This action is respectfully acknowledged by the Examiner.

Information Disclosure Statement

The references listed on the Information Disclosure Statement dated September 27, 2006 have been considered by the Examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 13, and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe et al (J. Org. Chem. 2002, 67, 1712-1715).

Watanabe et al disclose a process for the production of an optically active alcohol wherein a ruthenium complex is used in the presence of a hydrogen donor (formic acid). Please see scheme 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 11, 13, 17, 20, 23, 26, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al.

Applicant claims a process for producing an optically active alcohol comprising placing a metal complex and a ketone in a polar solvent and stirring the mixture under pressurized hydrogen to hydrogenate the ketone compound to thereby obtain the optically active alcohol.

Determination of the scope and content of the prior art (MPEP §2141.01)

Watanabe et al disclose a process for the production of an optically active alcohol wherein a ruthenium complex is used in the presence of a hydrogen donor (formic acid). Please see scheme 1.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

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The difference between the prior art and the claims is the limitation that there is no base present. Also, the limitation of the ketone having a halogen present on it is different.

Finding of prima facie obviousness

Rational and Motivation (MPEP §2142-2143)

One having ordinary skill in the art at the time of the instant invention would find it obvious to utilize the process as taught by Watanabe et al in the presence or absence of a base. One having ordinary skill in the art at the time of the instant invention would find it obvious to utilize the same process as taught by Watanabe et al using a haloketone. One having ordinary skill in the art at the time of the instant invention would be motivated to do so as it is understood that any ketone may be used with or without a base.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KELLETTE GALE whose telephone number is (571)272-8038. The examiner can normally be reached on M-F (6:30am-3:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, YVONNE EYLER can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kellette Gale Patent Examiner Technology Center 1600

July 29, 2008

/SHAILENDRA - KUMAR/ Primary Examiner, Art Unit 1621